

Data Acquisition Standard Operating Procedures

South Florida Water Management District (SFWMD) Land Use Land Cover (LULC) (ID# 5068)

Last Updated: 5/6/2023

Program Summary

Land Use Land Cover mapping following the Florida Land Use, Cover and Classification System. Data for 1995, 1999, 2004-5, 2008-9, 2014-16, 2017-2019 (partial coverage)

URLs

- Program - <https://www.sfwmd.gov/>
- DDI - <https://data.florida-seacar.org/programs/details/5068>

Contacts

Contact Name	Organization	Email	Phone
GIS Contact	SFWMD GIS Contact	GISData@sfwmd.gov	

Data Tables

Data Stored Procedures

- usp_combined_acreage_insert_5068I

Data Acquisition Standard Operating Procedures: ProgramID 5068

Date Created: 04/21/2022

Created By: Jennifer Baker

Data File Path: N/A

DDI URL: <http://dev.seacar.waterinstitute.usf.edu/datadiscovery/programs/details/5068>

Procedure Overview:

1. The Indicator Data for this DataStream is in Spatial format to begin with.
2. The 'lu_nwfwmd_2010' shapefile was loaded into the enterprise geodatabase as the feature class 'GIS_4023A' via ArcCatalog. For more details see GIS Appendix.

Data Tables

1. GIS_5068_CW_INTERSECT

Data Stored Procedures

1. None

GIS Appendix:

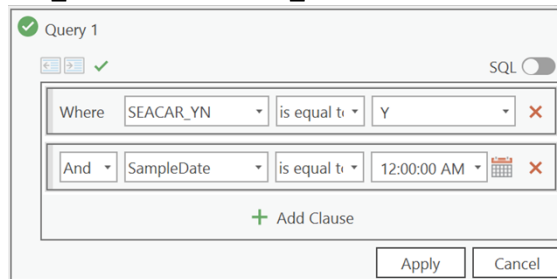
Coastal Wetlands Only

- SFWMD LULC
- 1995, 1999, 2004-5, 2008-9, 2014-16
- 3030 and 5068 - SFWMD and SFWMD overlap in charlotte harbor. Cut each dataset exactly at the lee county line so that acreage totals will not be duplicated.
- 5068 and 5069: sfwmd and sjrwmd overlap near St Lucie County. Cut both at St Lucie County Line to avoid overlap.
- Separate years in geodatabase: GIS_5068_1995, GIS_5068_1999, GIS_5068_2004, GIS_5068_2008, GIS_5068_2016
- Combined and sourcID, sampleddate, uniqueID, hectares fields added: GIS_5068
- Intersect with MA_CHIMMP: GIS_5068_Intersect1
- Due to multiyear data: After Intersect, Dissolve is needed: All original fields and LandCoverID;LC_Name;CoastalWetland_YN;SAV_YN;Oyster_YN;SourceID;SampleDate;Hectares (which is null); UniqueID (which is null); MA_Name;ArealID;CHIMMP_Region
 - GIS_5068_Intersect
- Final data: GIS_5068, GIS_5068_Intersect, and GIS_5068_SUMMARIZE. Coastal Wetlands Only. SampleDate field is 1/1/[YEAR], with Year of LULC.. Data includes Exotics
- **Update process for new LULC data – NOTE 2019 layer (as of 10/2/2020) only covers a portion of the district. Need to determine whether it should be used for analysis**
 - Import new layer (lu_sfwmd_2019) into ID_5068.gdb/albers
 - Add FLUCCS (long) and SampleDate (date) to new layer. Populate with FLUCCS code and with 1/1/[year] for year of LULC

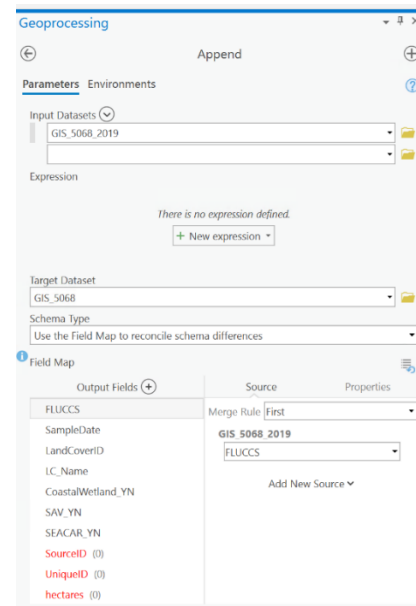
- Append new layer into the GIS_5068_Complete layer that contains all years of LULC with all FLUCCS codes

OBJECTID *	Shape *	FLUCCS	SampleDate	Shape_Length	Shape_Area
1	Polygon	2130	1/1/2016	3312.724688	230524.209888
2	Polygon	6216	1/1/2016	454.014847	8588.917877
3	Polygon	6410	1/1/2016	402.320618	11453.649654
4	Polygon	5300	1/1/2016	1485.060515	23898.652174

- Join GIS_5068_Complete to REF_LandCover
- Setup definition query to choose only the new LULC SampleDate AND the REF_Landcover.SEACAR_YN=Y



- Import the selected records of GIS_5068_Complete (ie 2019) into GIS_5068_2019
- Append GIS_5068_2019 to GIS_5068
- Populate SourceID with ObjectID
- Intersect with Intersected with ORCP_MA_CHIMMP_Wetlands: GIS_5068_Intersect1
- Dissolve All original fields and LandCoverID; LC_Name; CoastalWetland_YN; SAV_YN; Oyster_YN; SourceID; SampleDate; Hectares (which is null); UniqueID (which is null); MA_Name; ArealID; CHIMMP_Region
 - GIS_5068_Intersect_New
- Populate fields: UniqueID (GIS_[#]-ObjectID) (using Arcade code: Concatenate("GIS_5068-" + \$feature.OBJECTID_1)). Hectares = !Shape_Area! * 0.0001
- Import as table GIS_5068_Intersect_NEW



GIS_5068, GIS_5068_CW_Intersect; Wetlands Only. Done

FLUCCS	LandCoverID	LC_Name	CoastalWetland_YN	SAV_YN	FREQUENCY
4220	23	Brazilian Pepper	Y	N	4552
4240	136	Melaleuca	Y	N	2571
4370	11	Australian Pine	Y	N	1691
6120	130	Mangrove Swamp	Y	N	19114

6191	136	Melaleuca	Y	N	3529
6420	199	Salt Marsh	Y	N	10898
6510	240	Tidal Flat	Y	Y	5405

```

SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [dbo].[usp_combined_acreage_insert_5068I]
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;

-- UPDATE Hectares column
/*
UPDATE GIS_5068_INTERSECT
SET Hectares = Shape_Area*0.0001
*/

-- Constants - PLEASE SET NOW!!
DECLARE @dataLoadCode varchar(10) = '5068I';
DECLARE @combinedTable varchar(50) = 'Combined_Acreage'
DECLARE @parameterID int

-- Setup data load
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID int, @dataStreamID int;

SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;

-- Delete Existing Data
exec usp_delete_combined @dataStreamID, @combinedTable

-- Insert cw data
SET @parameterID = 48 --Hectares

-- Insert data
INSERT INTO Combined_Acreage(ProgramID, DataStreamID, ParameterID, LandCoverID, AreaID, GISSourceID,
SampleDate, [Year], SourceDate, ResultValue, MADup, CHIMMP)
SELECT @programID, @dataStreamID, @parameterID, a.LandCoverID, a.MA_AreaIDBuff, a.SourceID,
a.SampleDate, YEAR(a.SampleDate), NULL, a.Hectares, NULL, a.CHIMMP_Regi on
FROM GIS_5068_CW_INTERSECT a
WHERE a.MA_AreaIDBuff <> 9999
AND a.MA_AreaIDBuff <> 0
AND a.CoastalWetland_YN = 'Y'
ÿ
exec usp_combined_data_tracking_insert @parameterID = @parameterID, @ProgramID = @programID, @data
= @dataStreamID, @CombinedTableName = @combinedTable, @NumRowsFinal = @@ROWCOUNT, @LastUpdateBy =

/*
SELECT *
FROM Combined_CW
where programid = 5068

SELECT *
FROM Combined_Data_Tracking
where Programid = 5068

SELECT *
FROM GIS_5068_CW_INTERSECT

SELECT *
FROM Combined_Parameters

SELECT *
FROM DataStreamProcedure

```

WHERE ProgramID = 5068

exec usp_delete_combined 1377, 'Combined_CW'
*/

END

GO